



ESO

European Organisation
for Astronomical
Research in the
Southern Hemisphere



Training Opportunity for Portuguese Trainees

Title

Software Engineer ELT Control SW

Duty Station

ESO HQ, Garching/Germany

Control Software and Engineering Overview:

The Control Software and Engineering department (CSE) within the Directorate of Engineering (DoE) is responsible for specifying, analyzing, designing, implementing, verifying and maintaining control systems and is responsible for the development of control software for (optical and radio-) telescopes and astronomical instruments over the full software lifecycle.

CSE is supporting all ESO's projects, in particular the Extremely Large Telescope (ELT).

Proposed field of activity:

The proposed opportunity consists of support in control software for the ELT. The successful candidate will consecutively support the 3 software groups within CSE:

Infrastructure and Integration (CISI):

- Get familiar and support the ELT development and test environment
- Contribute to the test of ELT control software and the integration of the different parts.

Observatory Control SW (COCS):

- Support the development of the ELT control software parts that are developed at ESO like the central control system (CCS) or the M1 local control system (M1LCS)

Instrument Control SW (CINS):

- Support the development of the ELT instrument control software (ICS)

Required education:

Applicants should have completed or be in their final year of a university course at masters level in computer science. Good practical experience in software development, preferred with distributed real time systems, is needed.

Operating systems: Linux

Programming languages: C/C++

Tools: JIRA, Jenkins

Candidates must be fluent in English (both spoken and written), ESO's official language.

Candidates should have good interpersonal and communication skills and should be able to work in a multi-cultural environment, both independently and as part of a team.